

a stator having a laminated core, a winding and a plurality of slots, the winding having a current fed side, the stator being operatively connectable to a three phase-current via the winding;

a shield comprising an electrically conductive layer, the shield being operatively arranged between the current fed side of the winding and the laminated core so as to shield each slot, the shield being one of grounded and conductively connected to the laminated core only on the current fed side of the winding whereby amplitudes of capacitive currents circulating in the stator and bearings are reduced so as to prevent bearing damage;

first insulating means operatively arranged between the shield and the winding for insulating the shield from the winding; and

second insulating means operatively arranged between the shield and the laminated core for insulating the shield from the laminated core.